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cont.

wherein the permeable polycarbonate film selectively admits transport of oxygen and carbon monoxide and prohibits transport of a diaryl carbonate; and

wherein each of the cells is formed from a polycarbonate substrate with two opposing walls comprising permeable polycarbonate film.

2. The reactor plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 5×10^{-10} to 5×10^{-7} cc(STP)-mm/cm²-sec-cmHg.

3. The reactor plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 1×10^{-9} to 1×10^{-7} cc(STP)-mm/cm²-sec-cmHg.

4. The reactor plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 2×10^{-8} to 2×10^{-6} cc(STP)-mm/cm²-sec-cmHg.

5. The reactor plate of claim 1, wherein the permeable polycarbonate film is .0002 to .05 mm thick.

6. The reactor plate of claim 1, wherein the permeable polycarbonate film is .005 to .04 mm thick.

7. The reactor plate of claim 1, wherein the permeable polycarbonate film is .01 to .025 mm thick.

Cancel claims 11 and 12 and 17 to 36 without prejudice or disclaimer.